

20000903.qrp v01_n933.qrl.20000903

Date: Sun, 3 Sep 2000 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1933

QRP-L Digest 1933

Topics covered in this issue include:

- 1) [78630] Summer Fox Hunt #17(a) - NW7DX - correction -
by Bruce Rattray <rattray@gpfn.sk.ca>
- 2) [78631] Summer Fox Hunt #17(b) - WJ1R - correction -
by Bruce Rattray <rattray@gpfn.sk.ca>
- 3) [78632] Re: Summer Fox Hunt #17(a) - NW7DX - correction -
by Macstein@aol.com
- 4) [78633] OT maybe: BIRD?
by K4YBB@aol.com
- 5) [78634] 30 Day Propagation Forecast
by "James R. Duffey" <jamesd1@flash.net>
- 6) [78635] Thank You -- BIRD !
by K4YBB@aol.com
- 7) [78636] you did what?
by Robert McAtee <w5tnj@camalott.com>
- 8) [78637] WTB: 10 Turn 100K Lineer Pot
by Levent Sasmazel <levent@netlabs.net>
- 9) [78638] HC-49 sockets?
by "Steve McDonald" <jsm@gulfislands.com>
- 10) [78639] Re: Argonaut 505 Reverse polarity?
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 11) [78640] Tuna Tin Nite
by "Steve McDonald" <jsm@gulfislands.com>
- 12) [78641] [ANTENNA] Voltage Balun
by Joel Malman <malman@world.std.com>
- 13) [78642] Re: Argonaut 505 Reverse polarity?
by Dan Tayloe <dtayloe@home.com>
- 14) [78643] Re: [ANTENNA] Voltage Balun
by Steve Yates <aa5tb@yahoo.com>
- 15) [78644] Re: you did what? (or... ducts ain't jest for microwaves anymore)
by n4qa@juno.com
- 16) [78645] FOX: Starting Times Tomorrow
by "Marshall Emm" <mgemm@mtechnologies.com>
- 17) [78646] Is the Jones Key / Paddle Still Made?
by "Gary McCaughey" <MAIL4GARY@worldnet.att.net>
- 18) [78647] Shack Cleaning
by BOBOBOB1@aol.com
- 19) [78648] psk31 cq sprint ?????

by "al dawkins" <alk0frp@home.com>

20) [78649] PSK31 URL's
by "al dawkins" <alk0frp@home.com>

21) [78650] Limited Space Antennas ?
by Levent Sasmazel <levent@netlabs.net>

22) [78651] HW-8 Manual
by Scott Bauer <w3cv@pcbank.net>

23) [78652] HW-8 manual spoken for
by Scott Bauer <w3cv@pcbank.net>

24) [78653] Re: FOX: Starting Times Tomorrow
by "George, W5YR" <w5yr@att.net>

25) [78654] One foot wide shack.
by Ed Loranger <we6w@qsl.net>

26) [78655] Howdy gang.
by Ed Loranger <we6w@qsl.net>

27) [78656] Re: [ANTENNA] Voltage Balun
by "Pastor-KC1DI" <elbc@pivot.net>

28) [78657] RE: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!
by Sam Billingsley <SBillingsley@usaninc.com>

29) [78658] AT Activation - MD/PA Border - Cancellation
by Craig LaBarge <LaBarge_C@compuserve.com>

30) [78659] Re: QRP Homebrewer ?
by "George Heron N2APB" <n2apb@erols.com>

31) [78660] Re: you did what? (or... ducts ain't jest for microwaves anymore)
by David Hinerman <dlh1009@ritvax.isc.rit.edu>

32) [78661] RE: Limited Space Antennas ?
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>

33) [78662] Re: Limited Space Antennas ?
by Steve Yates <aa5tb@yahoo.com>

34) [78663] TenTec Goodies.....WANTED...!!
by "Andy GM0NWI" <Gm0nwi@tesco.net>

35) [78664] Fox: 40 mtr Fox Hunt Team Guidelines
by Bruce Rattray <rattray@gpfn.sk.ca>

36) [78665] RE: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!
by "AI2Q Alex" <ai2q@ispchannel.com>

37) [78666] Re: [ANTENNA] Voltage Balun
by "Mike Yetsko" <myetsko@insydesw.com>

38) [78667] FS: Three QRP tuners. cleaning shack.
by "Kelly Ellison" <kelman@dialnet.net>

39) [78668] K2 ATU and balun saga
by "Mike Yetsko" <myetsko@insydesw.com>

40) [78669] Re: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!
by "Mike Yetsko" <myetsko@insydesw.com>

41) [78670] PSK-31 sprint

by "al dawkins" <alk0frp@home.com>
42) [78671] Re: [ANTENNA] Voltage Balun
by Rick McKee <kc8aon@juno.com>
43) [78672] Re: Fox: 40 mtr Fox Hunt Team Guidelines
by John Wagner <john@neknetwork.com>
44) [78673] Re: PSK-31 sprint
by "Rod, N0RC" <n0rc@qsl.net>
45) [78674] Balanced antenna, unbalanced ATU?
by "M0CQG" <m0cqq@dial.pipex.com>
46) [78675] Re: [ANTENNA] Voltage Balun
by "James R. Duffey" <jamesd1@flash.net>
47) [78676] RE: Balanced antenna, unbalanced ATU?
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
48) [78677] Re: Balanced antenna, unbalanced ATU?
by "George, W5YR" <w5yr@att.net>
49) [78678] RE: Argonaut 505 Reverse polarity? Another Horror Story and why you
need a NOGApig!
by n4qa@juno.com
50) [78679] Announcing September's Spartan Sprint
by Richard Fisher <ki6sn@yahoo.com>
51) [78680] Re: Argonaut 505 Reverse polarity? Another Horror Story and why you
need a NOGApig!
by "Mike Yetsko" <myetsko@insydesw.com>
52) [78681] Amidon changed iron powder material numbering!
by Arjen Raateland <Arjen.Raateland@vyh.fi>
53) [78682] Re: K2 ATU and balun saga
by "Mike Branca" <w3irz@att.net>
54) [78683] Re: Amidon changed iron powder material numbering!
by Chris Trask <ctrask@primenet.com>
55) [78684] Re: Amidon changed iron powder material numbering!
by Arjen Raateland <Arjen.Raateland@vyh.fi>
56) [78685] Re: K2 ATU and balun saga
by "Mike Yetsko" <myetsko@insydesw.com>
57) [78686] Re: K2 ATU and balun saga
by "Mike Yetsko" <myetsko@insydesw.com>
58) [78687] Re: Amidon changed iron powder material numbering!
by "Eric Swartz - Elecraft, WA6HHQ" <eric@elecraft.com>
59) [78688] Re: Amidon changed iron powder material numbering!
by Chris Trask <ctrask@primenet.com>
60) [78689] Dead FT-243 XTAL Question
by "Gary McCaughey" <MAIL4GARY@worldnet.att.net>
61) [78690] Re: Dead FT-243 XTAL Question
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
62) [78691] Nice Ending
by "Karl F. Larsen" <k5di@zianet.com>
63) [78692] Re: Amidon changed iron powder material numbering!
by Lee Bahr <w5drc@earthlink.net>
64) [78693] Fox - Thanks for the Summer Fox Hunt

- by "David Bixler" <qrp@netins.net>
- 65) [78694] Re: Dead FT-243 XTAL Question
by George F Franklin <w0av@juno.com>
- 66) [78695] FOX -- Thank you for the Summer Fox event
by Kevin L Anderson <k9iua@juno.com>
- 67) [78696] Re: Amidon changed iron powder material numbering!
by Chris Trask <ctrask@primenet.com>
- 68) [78697] Sunday Foxhunt
by w2xn@juno.com
- 69) [78698] Re: Dead FT-243 XTAL Question
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 70) [78699] Hmebrew QRP woes
by "TC Dufresne" <tdufres@radiks.net>
- 71) [78700] Fox- Keep on it - it pays off!
by John Wagner <john@neknetwork.com>
- 72) [78701] Re: Dead FT-243 XTAL Question
by n4qa@juno.com
- 73) [78702] FOX - Two super ops today!
by Macstein@aol.com
- 74) [78703] Fox: and Thanks
by Pete Burbank <plburbank@kih.net>
- 75) [78704] Another 50-50 Foxhunt...
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 76) [78705] FOX: Quick report from the swamp
by Paul Womble <pwomble1@tampabay.rr.com>
- 77) [78706] RE:Dead FT-243 Crystal Question
by John Payne <paynej1@strato.net>
- 78) [78707] FOXII
by "Jay Henson" <jbhenson@zebra.net>
- 79) [78708] The Summer Fox Hunt
by "Glenn Maclean" <glennmaclean@ix.netcom.com>
- 80) [78709] OT: Looking for 73 Mag Article Between 1991 & 1994
by schoon@amgt.com
- 81) [78710] Station Grounding
by "Jay Henson" <jbhenson@zebra.net>

Date: Sat, 2 Sep 2000 17:04:55 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [78630] Summer Fox Hunt #17(a) - NW7DX - correction -
Message-ID: <Pine.LNX.3.95.1000902170201.4827B-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Marshall, N1FN, (ET) has informed me that he worked Ben so the "Dawgs"
receive 1 more point and are ahead by this 1 point.....I was working from

a draft log....thank you Marshall!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

- TEAM COMPETITION -

(1) - SWAMP RATS: Pts=74 "Clean Sweep"

- K0EVZ - Doc <-
- NV4V - Pete <-
- AF4PS - Mac <-
- AJ4Y - Paul<-
- N1TP - Tom <-

(2) - QRP CHEESEHEADS: Pts=13

- N9AW - Jerry <-
- NK9G - Rick <-
- AE9K - Brian
- WA9TZE- Jim

(3) - RAIDERS OF THE LOST RF: Pts=31

- NA6E - Mary
- VE3FAL - Fred
- VA6RF - Earl <-
- VE5RC - Bruce <-
- VE6JAZ - Robert

(4) - THE FLYING PIGS: Pts=25

- KB9BVN - Brian
- N8IE - Dan <-
- W8DIZ - Diz <-
- WB6JBM - Rick
- AC7CF - Andrew

(5) - GANDALF the GREY:

- G0JJQ - Wayne

(6) - BIG DAWGS: Pts=75

- N1FN - Marshall <-
- N5TW - Tom <-
- WJ1R - Larry <-
- NW7DX - Ben <-
- N6WG - Bob

....as always, please send corrections to me....thank you....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sat, 2 Sep 2000 17:07:47 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [78631] Summer Fox Hunt #17(b) - WJ1R - correction -
Message-ID: <Pine.LNX.3.95.1000902170511.4827C-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...because of the correction to Team hunt #17(a), the Dawgs are still
ahead by 1 point in hunt #17(b).....what a close race!!....the best of
luck to everyone tomorrow!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

- TEAM COMPETITION -

- (1) - SWAMP RATS: Pts=79 "Clean Sweep"
- K0EVZ - Doc <-
- NV4V - Pete <-
- AF4PS - Mac <-
- AJ4Y - Paul<-
- N1TP - Tom <-

(2) - QRP CHEESEHEADS: Pts=15
 - N9AW - Jerry <-
 - NK9G - Rick <-
 - AE9K - Brian
 - WA9TZE- Jim

(3) - RAIDERS OF THE LOST RF: Pts=34
 - NA6E - Mary
 - VE3FAL - Fred
 - VA6RF - Earl <-
 - VE5RC - Bruce <-
 - VE6JAZ - Robert <-

(4) - THE FLYING PIGS: Pts=28
 - KB9BVN - Brian <-
 - N8IE - Dan <-
 - W8DIZ - Diz <-
 - WB6JBM - Rick
 - AC7CF - Andrew

(5) - GANDALF the GREY:
 - G0JJQ - Wayne

(6) - BIG DAWGS: Pts=80 "Clean Sweep"
 - N1FN - Marshall <-
 - N5TW - Tom <-
 - WJ1R - Larry <-
 - NW7DX - Ben <-
 - N6WG - Bob <-

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
 "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

 Date: Sat, 2 Sep 2000 19:08:28 EDT

From: Macstein@aol.com
To: rattray@gpfn.sk.ca, qrp-1@lehigh.edu
Subject: [78632] Re: Summer Fox Hunt #17(a) - NW7DX - correction -
Message-ID: <c2.1d10c0.26e2e26c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The Dawgs smell like a RAT.... HAHAHAHA!

Good luck tomorrow to all!

-MAC-
AF4PS
A Swamp Rat

Date: Sat, 2 Sep 2000 19:11:27 EDT
From: K4YBB@aol.com
To: qrp-1@lehigh.edu
Subject: [78633] OT maybe: BIRD?
Message-ID: <c5.8e55fc0.26e2e31f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Possible I'm OT but I would like to know if BIRD Electronics, the folks what make the model 43 watt meter, has a web site? I have looked a few places but found nutin yet. PLEASE reply off net.
Thank you

73 Jim K4YBB fp#55, 10-10 #17553

Date: Sat, 02 Sep 2000 18:05:33 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: qrp-1 <qrp-1@lehigh.edu>
Subject: [78634] 30 Day Propagation Forecast
Message-ID: <B5D6F1EC.2539%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

It looks like those 200 + days we had in July may have been the peak of the current solar cycle. The 30 day forecast, which I get weekly from the propagation reflector, is posted below. There is nothing above 185

predicted.

Conditions look like they will be mediocre for the build your own antenna contest September 21. They should improve a bit for QRPAfield the next weekend.

40 M and 30 M should be great all night this winter. - Dr. Megacycle
KK6MC/5

Prepared by the U.S. Dept. of Commerce, NOAA, Space Environment Center

For a descriptive text, write to SEC or refer to our Web page.

Web page URL: <http://www.sec.noaa.gov/wwire.html>

#

Twenty-seven Day Space Weather Outlook Table

Issued 2000 Aug 29

#

#	UT	Radio Flux	Planetary	Largest
#	Date	10.7 cm	A Index	Kp Index
	2000 Aug 30	165	20	4
	2000 Aug 31	165	12	3
	2000 Sep 01	165	12	3
	2000 Sep 02	165	10	3
	2000 Sep 03	165	10	3
	2000 Sep 04	170	10	3
	2000 Sep 05	180	10	3
	2000 Sep 06	180	10	3
	2000 Sep 07	180	10	3
	2000 Sep 08	185	10	3
	2000 Sep 09	185	12	3
	2000 Sep 10	180	10	3
	2000 Sep 11	175	10	3
	2000 Sep 12	170	10	3
	2000 Sep 13	170	12	3
	2000 Sep 14	165	10	3
	2000 Sep 15	160	10	3
	2000 Sep 16	155	10	3
	2000 Sep 17	150	10	3
	2000 Sep 18	145	10	3
	2000 Sep 19	140	12	3
	2000 Sep 20	135	12	3
	2000 Sep 21	135	12	3
	2000 Sep 22	135	10	3
	2000 Sep 23	140	10	3
	2000 Sep 24	150	10	3
	2000 Sep 25	160	10	3

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 2 Sep 2000 20:31:13 EDT
From: K4YBB@aol.com
To: qrp-l@lehigh.edu
Subject: [78635] Thank You -- BIRD !
Message-ID: <4e.a992a59.26e2f5d1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thank You to the several replys I recieved to my request for BIRD web site.
I had it almost correct, I tryed several ways including using the "~" but for
some dumb reason never tried the "-" it the URL. Thanks to all, this QRP-L is
a fantastic group, always willing to help.

72 / 73 Jim K4YBB fp#55 10-10# 17553

Date: Sat, 02 Sep 2000 09:52:33 -0500
From: Robert McAtee <w5tnj@camalott.com>
To: qrp-l@Lehigh.EDU
Subject: [78636] you did what?
Message-ID: <3.0.3.32.20000902095233.007be3a0@mail.camalott.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bill...N4QA.....your sick!! What a great idea. I've been doing great with a
20 foot wire across my living room on 20 meters and 3 watts but you beat
all. I have a ton of dipoles over the roof but like to sit at the dining
table watching TV with the wife. I cq during commercials. If I get a bite,
forget the TV. Anyway Bill you do good! Thanks for sharing that with us.
==Mac== AG5F Abilene, TX.

Date: Sat, 02 Sep 2000 21:02:10 -0400
From: Levent Sasmazel <levent@netlabs.net>
To: qrp-l@Lehigh.EDU
Subject: [78637] WTB: 10 Turn 100K Lineer Pot
Message-ID: <39B1A312.541D1AA@netlabs.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

Is any one have 10 Turn 100K Lineer Pot for sale ? (like one on the Red Hot Radio's)

Thanks

Levent Sasmazel
KC2CNY

Date: Sat, 2 Sep 2000 18:10:57 -0700
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78638] HC-49 sockets?
Message-ID: <001301c01543\$d2ae3c00\$5911f4cc@jms>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone have any extras?...Would like to purchase 3 or 4 if possible.

VE7SL / Steve

Date: Sat, 02 Sep 2000 20:55:26 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: aluscre@neo.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78639] Re: Argonaut 505 Reverse polarity?
Message-ID: <39B1A17C.681AF718@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Y'all have it easy.

Appx 3 yrs ago, one of the profs took a very expensive piece of UK designed electornics offshore. It had a hefty power supply. It started chirping like it was supposed to and the prof stopped paying attention.

After a while, the chirping stopped and one of the grad students noticed a burning smell. Near as I can figure, one of the regulator transistors in the supply went down and took a whole bunch of other things with it. A hole was melted in the double sided glass board. Sent the board back to the manufacturers rep. He charged me \$1200 for a new board (there was not that much on the board). Had to hide the repair cost in a grant. The board with the hole in it now sits on a bookshelf in my office.

Henry

Date: Sat, 2 Sep 2000 18:24:42 -0700
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78640] Tuna Tin Nite
Message-ID: <000701c01545\$bf9f78c0\$6511f4cc@jms>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've started to beef up the ground system on my 7mc half-sloper by adding 12 33' radials with more to follow. Will be on tonight with the tin at 0300, 0400 and 0500 calling CQ on 7040.2....looking for state # 17 tonight.

73, Steve / VE7SL

Date: Sat, 2 Sep 2000 21:22:17 -0400 (EDT)
From: Joel Malman <malman@world.std.com>
To: qrp-l@Lehigh.EDU
Cc: k1qm@world.std.com
Subject: [78641] [ANTENNA] Voltage Balun
Message-ID: <200009030122.VAA21750@world.std.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

OK, I admit it, I'm just not swift when it comes to Baluns. I think I understand Current Baluns, but Voltage Baluns are a different animal.

Backround: I have a HUGH dipole out in the woods, it's up pretty high and does pretty well.. But being QRP I really want to get all the QRP RF out into the air. The lead into the shack is 450 Ohm ladder line (AKA window wire or open feed).

I currently (no pun intended) use a 4:1 voltage balun to convert the the 450 ohm ladder line to about 50 Ohms that the rig wants to see. A pretty simple device (mostly right out of the ARRL Handbook).

But it seems to me that if I used a 9:1 Voltage Balun (450 divided by 9 equals about 50 ohms, last time I checked), I would get a MUCH better match at the rig antenna input.

Am I all wet here? Will I get more RF out into the air with a 9:1 balun over the 4:1? Will it make a difference at all?

How come I can not find a 9:1 voltage balun in the ARRL handbook (my version happens to be 1997).

Thanks for reading ... GE ... joel (queen mary)

--

/joel K1QM (K1 Queen Mary), Concord, MA.
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641

Date: Sat, 02 Sep 2000 18:34:53 -0700
From: Dan Tayloe <dtayloe@home.com>
To: n2go@arrl.net, qrp-l <qrp-l@Lehigh.EDU>
Subject: [78642] Re: Argonaut 505 Reverse polarity?
Message-ID: <39B1AABD.C38CFE53@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim:

It is not surprizing that the TX does nothing. It has been my experience in the three times I have done such a thing (I use fuses and reverse polarity diodes now!), that the final always gets fried.

My past designs have have most of the circuitry running off a voltage regulator, such as a 7808. In all cases, everything on the other side of such a regulator was fine.

The last time I did this, all my op-amps were connected directly to +12, and all got creamed. That sure was tough on a design where the op-amps are mounted dead bug style with a lot of parts hanging off the pins!

I feel your pain.....

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Sat, 2 Sep 2000 18:58:21 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: malman@world.std.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78643] Re: [ANTENNA] Voltage Balun
Message-ID: <20000903015821.18074.qmail@web3006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Joel,

Since it is very unlikely that the impedance at the feedpoint of your dipole is a resistive 450 ohms at any frequency then it is also unlikely that the impedance at the rig end of the 450 ohm transmission line is anywhere near 450 ohms. When a transmission line looks into an impedance other than its characteristic impedance (450 ohms in this example) the transmission line functions as a transformer. The impedance at the rig end of the transmission line will vary with length and with frequency. How much it varies is a function of the mismatch (SWR) at the antenna end.

This being said it is my opinion that trying to design a balun to correct this condition probably isn't worth the effort since you could actually make it worse depending many factors.

In other words... If it ain't broke don't fix it!

If you think that you really need an improvement I would suggest running the 450 ohm line directly to a balanced antenna coupler if possible insuring that the 50 ohm coax is always operating in a matched condition. Right now your greatest source of loss is when the coax is looking into something other than 50 ohms.

As far as the availability of 9:1 ratios in balun designs it may stem from the fact that when ratios greater than about 4:1 are attempted self-capacitance due to the requirement of a larger number of turns tends to reduce their effectiveness, at least according to Moxon and others. I haven't attempted anything other than the standard 1:1 and 4:1 myself so it may be open to experimentation if so inclined.

The main thing to remember is that at the rig end of your 450 ohm line the impedance is really hardly ever going to be 450 ohms.

Good luck.

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Sat, 2 Sep 2000 22:00:43 -0400
From: n4qa@juno.com
To: qrp-1@Lehigh.EDU
Subject: [78644] Re: you did what? (or... ducts ain't jest for microwaves anymore)
Message-ID: <20000902.220045.-85937.2.n4qa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Mac and gang,
Here's how it all came about.
I was sitting in my Lazy Boy, holding my Vectronics VEC-1140K DC receiver in my lap and a piece of hookup wire in one hand, wondering what might make a temporary receiving antenna that I could use right there in the den. The lamp worked... sort of.
About that time, Ellie, our 3-year-old Springer Spaniel, jumped into the

chair with me and walked it back into the reclining position as she so often loves to do.

Well, there I was staring at the ceiling and I notice this heat register pressed against the plaster-of -Paris. Hmm, I wondered... So I made the connection and WOW, that little receiver sprang to life ! Thanks, Ellie! After a few hours of THIS, I wondered (second wondering)... could I load this thing with a transmitter ? Well, well, well...Thanks again, Girl Dog !

Looking now at a few log entries for last March... well, those signal reports ain't half bad !

Hey Carter, N3A0, there you are in the middle of the page giving me a 599 + 20 dB for my VEC-1240K xmtr with one watt to the HDA (Heat Duct Antenna) from that K2 of yours !

Well, you just never know what'll work... and it IS true!... Dog IS man's best friend !

But, Mac... you sit at the dining room table watching TV and call CQ during commercials... and YOU call ME sick ! :)

73,

Bill, N4QA

YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Sat, 2 Sep 2000 20:06:19 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu
Subject: [78645] FOX: Starting Times Tomorrow
Message-ID: <39B15DBB.17333.1DB47DB@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Well, as has been thoroughly pointed out to me, I screwed up the time conversions for tomorrow's hunt:

>>2pm MDT (3pm PDT, 4pm CDT, 5pm EDT), here in the US. Or 2000Z for those of you outside these longitudes. <<

First, it's 2000Z for everybody in the whole world, and 2pm MDT. That would be, um, Mickey's big hand will be on the 1 on the left coast, the 3 in the middle of the US, and the 4 on the right coast.

Sorry about any confusion!

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Sat, 2 Sep 2000 22:12:14 -0700
From: "Gary McCaughey" <MAIL4GARY@worldnet.att.net>
To: <qrp-1@lehigh.edu>
Subject: [78646] Is the Jones Key / Paddle Still Made?
Message-ID: <015a01c01565\$8dca4ee0\$28dc4d0c@garymcca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Does anyone know if the Jones Paddles are still made? Cost?
Who is selling them?

Gary
W2UX
Lexington, SC

CW is the REAL THING, USE IT or LOSE IT!

Date: Sat, 2 Sep 2000 22:47:00 EDT
From: BOB0B0B1@aol.com
To: qrp-1@lehigh.edu (Low Power Amateur Radio Discussion)
Cc: collins@qth.net, hallicrafters@qth.net, tenten-1@lehigh.edu (10-10
International Discussion List)
Subject: [78647] Shack Cleaning
Message-ID: <80.369dd7.26e315a4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

NIR-12 JPS Professional Dual DSP	
Noise /Interference Reduction Unit	\$215.00
(Used twice)	

All priced quoted are plus shipping.
Bob Gorman
WA1SCH

Date: Sat, 2 Sep 2000 21:17:10 -0600
From: "al dawkins" <alk0frp@home.com>
To: <qrp-1@lehigh.edu>
Subject: [78648] psk31 cqz sprint ?????
Message-ID: <005d01c01555\$72a519c0\$0300a8c0@j5m9s4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Colorado QRP Club

I think there is enough interest and a few qrpers who would like to get started on PSK-31. Yet I don't want to get too close to the Contest season late in the year.

A Sprint of 4-6 hours. CQC would sponsor.

The sprint would not be immediate as I would like to let qrpers get set up with the software and interfaces.

For those who don't know you need a SSB rig, PSK31 uses audio. Computer to do the encoding and decoding. Plus a sound card and it doesn't have to be a Sound Blaster as some of the RTTY programs require. I have used my desk top 500mhz, my 200mhz Toshiba and my IBM laptops. The interface is simple using a 1:1 and a 1k to 8 ohm audio xfrm from radio shack, a couple of cables audio connectors, a 1k pot a RS232 for LPT1 or 9 pin com port connector. These ports provides push to talk switch. You end up with in and out audio from the sound card and PTT to the rig and that's it.

You can buy a kit for \$20 or get the parts and build it on a reperf board and even put to in a case. Rig blaster is \$80 with CD. Mike Agston of Lectrocrafft has a board for about \$20 I though CQC would sponsor a parts kit but there is enough places out there already.

Dave Benson NN1G has a \$95 mono band Xcvt for 80 or 20m setup for PSK31 just add a computer for 3 watts of PSK31 power.

There are many software programs on freeware. I have a CD with 30 programs from PSK31, SSTV, RTTY, DSP, CW practice, packet, logging, antenna, filters, about 50 meg worth. I can burn them at a very minimal cost.

If you do not have access to the web I can get you PSK31 programs. If the interest is great enough I will list the URL's for the software sites and interface diagram sites which includes diagrams for almost any SSB radio. PSK-31 is suited for low signal work and QRP fits the bill. I have worked Stations that I could not hear on the spkr.

Plus we will check the Solar Gods before we set a Date to make sure we don't have a storm that turns our antennas into wet string.

Lets give it a shot and see what happens.

Al K0FRP
CQC VP

Date: Sat, 2 Sep 2000 21:18:19 -0600
From: "al dawkins" <alk0frp@home.com>
To: <qrp-l@lehigh.edu>
Subject: [78649] PSK31 URL's
Message-ID: <006901c01555\$9c307a00\$0300a8c0@j5m9s4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Interfaces
<http://www.packetradio.com/psk31.htm>

Shareware
<http://www.kender.es/~edu/psk31.html>

<http://www.al-williams.com/wd5gnr/pskgnr.htm>

<http://members.home.com/hteller/digipan/>

<http://users.nais.com/~jaffejim/mixwpage.htm>

Date: Sat, 02 Sep 2000 23:39:19 -0400
From: Levent Sasmazel <levent@netlabs.net>
To: qrp-l@Lehigh.EDU
Subject: [78650] Limited Space Antennas ?
Message-ID: <39B1C7E7.795DAAE4@netlabs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hi Gang,

I like to get some advice about QRP antennas. I have very limited space to use any WEB sites to check. Any experience and ideas will help.

Thanks in Advance.

Levent
KC2CNY TA1CAC

Date: Sun, 03 Sep 2000 00:25:20 -0400
From: Scott Bauer <w3cv@pcbank.net>
To: qrp-1@lehigh.edu
Subject: [78651] HW-8 Manual
Message-ID: <4.2.0.58.20000903001809.0096dec0@mail.pcbank.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Gang,

Is there anyone on the list that has an HW-8 and does not have a manual? If so, I would like to give you a new copy. I only have one to give and it goes to the first taker.

Scott W3CV

Date: Sun, 03 Sep 2000 01:05:31 -0400
From: Scott Bauer <w3cv@pcbank.net>
To: qrp-1@lehigh.EDU
Subject: [78652] HW-8 manual spoken for
Message-ID: <4.2.0.58.20000903010402.0096fc30@mail.pcbank.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

The HW-8 manual has been spoken for.

Scott

Date: Sun, 03 Sep 2000 00:57:28 -0500
From: "George, W5YR" <w5yr@att.net>
To: mgemm@mtechnologies.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78653] Re: FOX: Starting Times Tomorrow
Message-ID: <39B1E848.DDB5BC58@att.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Actually, it would be Mickey's little hand if your watch is as I
remember mine to be. <:}

Short hand for the hour and long hand for the minutes.

Give it up for now, Marshall - we know when to look for ET!!

Just listen real hard for W5YR . . .

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

Marshall Emm wrote:

>
> Well, as has been thoroughly pointed out to me, I screwed up the time
> conversions for tomorrow's hunt:
>
> >>2pm MDT (3pm PDT, 4pm CDT, 5pm EDT), here in the US. Or 2000Z
> for those of you outside these longitudes. <<
>
> First, it's 2000Z for everybody in the whole world, and 2pm MDT. That would
> be, um, Mickey's big hand will be on the 1 on the left coast, the 3 in the
> middle of the US, and the 4 on the right coast.
>
> Sorry about any confusion!
>
> Marshall Emm, N1FN
> Milestone Technologies, Inc.
> (303) 752-3382
> <http://www.mtechnologies.com>

Date: Sat, 02 Sep 2000 23:32:47 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>
Subject: [78654] One foot wide shack.
Message-ID: <39B1F08F.3A789B25@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ever wonder what the other guys' shack
is like. Of course yours isn't nearly
as nice.

Mine has the one foot syndrome. That's
not to say I can't send well.... what I
mean is that you have to have cat-like skills
to get into it.... one foot at a time. Geesh!
I used to have a 12 inch path to walk. Those
were the good ol' days. Now it has degraded
to a 6 inch wide swath... One which could better
be paved with stepping stones -- you have to climb
over a few old receivers, a string trimmer, and
miscellaneous items of suspect performance lying
on the floor.

One things for sure -- the kids here are getting
some Tai Chi training. They've actually gotten good
at reaching the side door at the rear of the shack
without messing up my gear!

Bless 'em.

I guess they've had a good trainer :-)

The network analyzer on the bench can be reached
but you have to share the blanket on the floor
with the dog. She knows I won't step on her so
she doesn't move anymore when I intrude on her
space -- adding to my precariouse position when
I use the equipment.

It's a good thing that visitors usually come
alone since only one can fit in the shack at
a time :-)

Take care. -Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

-----NetZero Free Internet Access and Email-----
Download Now <http://www.netzero.net/download/index.html>
Request a CDRom 1-800-333-3633

Date: Sat, 02 Sep 2000 23:33:19 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>
Subject: [78655] Howdy gang.
Message-ID: <39B1F0AF.B5F7B983@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hey folks, I just wanted to say hello and that I miss everyone. I recently heard about the 20 meter foxhunt. I didn't hear anyone the other day but I tried for a few minutes. Ol' Ed is still hanging out at home on disability and wishing he could use the hands better. Today I did run the QRP "WSN-40" net but my code was shaky during the last few minutes of the net.

I know I've received many well-wishes and appreciate that 1000 per cent!!! Thanks again. They've finally diagnosed the primary problem as a myofascial injury. Kind of like having grains of sand inside a bicycle brake cable. Hopefully I'll get the motor skills back to normal in time. All these years of sitting and programming on the computer have done their damage.

At any rate I've planned to attend Pacificon on the Saturday session in October.

Until then, keep building gear and experimenting with antennas and feedlines. Hopefully I'll start up some QRQ practice sessions again this winter. God willing.

All the best from the Ed meister. 72/Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

Why pay for something you could get for free?
NetZero provides FREE Internet Access and Email
<http://www.netzero.net/download/index.html>

Date: Sun, 3 Sep 2000 04:50:23 -0400
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <malman@world.std.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78656] Re: [ANTENNA] Voltage Balun
Message-ID: <006201c01584\$022f6220\$1a7961ce@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

HI JOEL ,

I'll leave it to other to explain but 9:1 won't do any better than 4:1 or 1:1 for that fact.. But Amidon sells them if you still want to try. At http://www.amidoncorp.com/f_ham.htm

73 dave

Date: Sun, 3 Sep 2000 08:25:50 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrpl_Submit (E-mail)" <qrp-1@Lehigh.EDU>, "Klqrp_Submit (E-mail)" <KLQRP@applegate.org>
Subject: [78657] RE: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!
Message-ID: <058CBAE0931FD411B70E00805FCD5D4237C99C@mailserver2.usan.com>
MIME-Version: 1.0
Content-Type: text/plain

Everytime I read one of the horror stories it reminds me of my own (smoked my MFJ SWR Analyzer) and why the NOGA club created the NOGApig kit project. All this needless work and damage to you prized QRP rig can be avoided by building and installing a NOGApig. It's the best few bucks you will ever spend. Reverse voltage, Overvoltage, Undervoltage and Over current protection. Please check out the NOGA web page. Complete schematics and manual are available on -line for FREE. Even if you don't want to buy a kit check the documentation out. The PIG uses a resettable (automatically) PolySwitch fuse devise that works over and over so the replacement cost for fuses alone with pay for the PIG over time. Sleep well at night knowing you valued rig is protected by a NOGApig.

Sam Billingsley AE4GX Atlanta, GA
personal web page at <http://ae4gx.home.mindspring.com/>
North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>

Subject: Argonaut 505 Reverse polarity?
n2go@arrl.net
Date: Sat Sep 02 2000 - 13:03:38 EDT

Did anyone ever reverse the battery connections to your ten tec 505? :))
It can happen when you don't pay attention.

>>>>>>snip>>>>

Date: Sun, 3 Sep 2000 08:37:23 -0400
From: Craig LaBarge <LaBarge_C@compuserve.com>
To: ATRAIL-L Mailing List <atrail-l@lehigh.edu>
Cc: EPA QRP List <epaqrp-l@lehigh.edu>, QRP-L Mailing List <qrp-l@lehigh.edu>
Subject: [78658] AT Activation - MD/PA Border - Cancellation
Message-ID: <200009030837_MC2-B200-9F2D@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline

Good morning:

Well, I actually had the truck loaded and was on the road when I heard on= the National Weather Service broadcast that they were forecasting thunderstorms with heavy downpours. Since it's about a 2-hour drive each= way, I decided to not risk driving all the way down there to get rained out. =

My apologies to anyone who got up early this morning to listen for me. I= will definitely be re-scheduling this trip in the near future. In fact, next Sunday looks like a possibility. I'll keep everyone posted.

Have a great holiday weekend!

73, Craig WB3GCK

Date: Sun, 3 Sep 2000 08:53:48 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: <kc8aon@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [78659] Re: QRP Homebrewer ?
Message-ID: <001c01c015a6\$0749b7c0\$0100000a@gheron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Information about QRP Homebrewer are at
http://www.njqrp.org/data/qrp_homebrewer.html , or can be received
automatically by email by sending an email message to EMBOT@NJQRP.ORG with
SEND QRP_HOMEBREWER in the body of the message.

73, George N2APB
n2apb@amsat.org
editor & publisher, QRP Homebrewer magazine

=====
How does one go about subscribing to the QRP
Homebrewer ? At least I think that's what it is called ! I heard it
mentioned a few times and it got my curiosity up - inquiring minds want
to know !

73...Rick McKee KC8AON { CW lives as long as I do ! }

Date: Sat, 02 Sep 2000 21:01:11 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1@lehigh.edu
Subject: [78660] Re: you did what? (or... ducts ain't jest for microwaves
anymore)
Message-ID: <3.0.6.32.20000902210111.0079a8e0@vmsspop.rit.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:00 PM 9/2/00 -0400, you wrote:
>Well, you just never know what'll work... and it IS true!... Dog IS man's
>best friend !

Bill,

Are you sure she's a springer spaniel? Sounds more like a Ham Radio Retriever to

me!

Dave

Date: Sun, 3 Sep 2000 07:05:33 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'levent@netlabs.net'" <levent@netlabs.net>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>
Subject: [78661] RE: Limited Space Antennas ?
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBD30@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Some of the best limited space antennas require antenna wire (thin and appropriately colored jacket) along with a good antenna tuner. Center-fed doublet antennas, whether they are cut to G5RV dimensions or not, often perform better than end-fed wires if only because the feedpoint and more of the antenna is likely to be higher up or away from the shack. Don't get me wrong- an end-fed wire and counterpoise still makes an excellent covert antenna, and probably a lot easier to conceal than TV twinlead.

The end-fed or center-fed antenna may be formed into a large closed loop and these work well too.

There are endless ways to conceal wire antennas.

I haven't tried any of these but MFJ makes (AEA used to have one) small "current" or "magnetic" loop antennas which cover 7-21 or 10-30 MHz. These take up about a meter of space and there is some loop information in ARRL books, I believe. Keep in mind that because the loop is small, Some Amateurs may try to squeeze a loop into places surrounded by brick, re-bar, concrete, wiring and metal and then expect wire antenna performance. An outdoor antenna is always best.

73

Jay

W6CJ

-----Original Message-----

Hi Gang,

I like to get some advice about QRP antennas. I have very limited space to use any WEB sites to check. Any experience and ideas will help.

Thanks in Advance.

Levent
KC2CNY TA1CAC

Date: Sun, 3 Sep 2000 07:24:08 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78662] Re: Limited Space Antennas ?
Message-ID: <20000903142408.1201.qmail@web3005.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Levent,

This is a common subject here so I'm sure you'll get a lot of ideas.

One idea is the small transmitting loop antenna. It can be a little complicated for the antenna novice but when simpler alternatives aren't possible the small loop can make a good account for itself if built properly. For me they are just fascinating to play with. It never ceases to amaze me when I get a good signal report from a DX station using QRP and then look out my window to see my loop sitting on a picnic table underneath my bushy pine tree.

Here is my site:

<http://www.geocities.com/aa5tb/loop.html>

I also have a lot of related links at the bottom of the page.

This is just one idea of many. Good luck.

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!

<http://mail.yahoo.com/>

Date: Sun, 3 Sep 2000 15:26:49 +0100
From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: "American QRP List" <qrp-l@lehigh.edu>
Subject: [78663] TenTec Goodies.....WANTED...!!
Message-ID: <000001c015b3\$35187b20\$5116ac3e@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Guy`s.....

Here`s the story.....

A friend of mineDave GM4SNZ.....QTH Falkirk.....in central
GM-land.... has just gotten himself a VERY nice
Ten Tec Argosy II for the tidy price of 175 from a guy in Manchester
G-land....

While Dave is VERY happy with his new acquisition..... he does however need a
little help in sourcing a "surplus to requirements" OR "FOR
SALE".....CW Filter for his rig, so he`s asked me to "post" this
"little somethin`" to y`all...

Dave is looking for EITHER the TenTec 217 OR TenTec 219
Narrow CW Filter for his rig, and has asked me to
say that he is willing to offer around 50 or so for anyone who can help
source such a thing for him....

Wonder if there is anyone out there willing to do a deal with him..??

If so could you please send all enquiry`s to ME at the address below
with you`re thoughts and asking`s.... Let`s see if we can get something for
this guy..... to let him see exactly what this wonderful list has to offer
from the people within it`s workings....

72s de Andy
gm0nwi@btinternet.com
A.R.S. GM0NWI

gm0nwi@tesco.net

"Long Live QRP...!"

"All The Best Wishes From Bonnie Scotland.."

GQRP No.9576

"The Weakest Station In The Nation.."

QRP-L No.2165

ICQ No.31899603

"It is vain to do with more..."

what can be done with

less.."

Date: Sun, 3 Sep 2000 08:30:10 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [78664] Fox: 40 mtr Fox Hunt Team Guidelines
Message-ID: <Pine.LNX.3.95.1000903080604.18209B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello everyone!...here are the Team Guidelines for the Winter Fox Hunt which begins in October...when you have your Team of 5 stations formed please send me an e-mail so I can include you on the Official Teams roster...your Team might be the next one to win the beautiful Fox Hunt Team plaque and/or the "Clean Sweep" plaque; both designed and created by Ken LaRose, VE3ELA.....

.72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

..guidelines for 2000-2001 season...

- TEAM GUIDELINES for the 40 mtr Fox Hunt -

The main idea of the Team competition, which is held within the annual 40 mtr Fox Hunt, is to have FUN, post tall tales after each hunt (of course you can stretch the truth!... :-)) and enjoy another aspect of the pursuit of QRP!

- each Team will consist of 5 stations.

- obviously there will be times when some stations cannot make the fox hunt for various reasons...don't sweat it as that's the way the slippery seaweed sloshes...there could be an excellent belly-laughing tale here to be told on QRP-L and QRP-C for the entertainment of all!... ;-))

- scoring for each Team is the total NUMBER OF PELTS SKINNED AND ON THE WALL by each Team hunter as indicated in the final fox logs.

- the winning Team will receive the 40 mtr Fox Hunt Team Plaque, which is sponsored by QRP-CANADA. This plaque was won for the first time during the 1998-1999 fox hunt by the "Houston Hounds" while "Tesla's Terrors" came on with a vengeance to win the plaque for the 1999-2000 season. Their names & calls have been engraved on a plate attached to the plaque. Each member of the winning team(s) also receives a nice colorful certificate to frame and hang on their shack wall, from Mary, NA6E, of Cherry Graphics.

A new plaque, generously sponsored by the KNIGHTLITES, which was won by Tesla's Terrors for the first time, made it's debut during the 1999-2000 season; the "Clean Sweep" plaque. It is awarded to the Team with the most "Clean Sweeps".

***It is the responsibility of the previous year's winning Team to send the Plaques to the new Team winners or it could be presented to them at FDI, Atlanticon, Ft. Tuthill, Pacificon or any of the QRP gatherings; whatever works out best for that year's Fox Hunt.

Ken La Rose, VE3ELA, creator of the Plaques, will engrave the new name plates and then send them to the new winners to be attached to the plaques.

.."So it was said; so let it be done"...good luck to all and don't forget to have FUN eh?!!

- 72 - Bruce(VE5RC+VE5QRP) QRP-L#886 QRP-C#1

Date: Sun, 3 Sep 2000 10:32:17 -0400

From: "AI2Q Alex" <ai2q@ispchannel.com>

To: <SBillingsley@usaninc.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [78665] RE: Argonaut 505 Reverse polarity? Another Horror Story and why

you need a NOGApig!

Message-ID: <000201c015b3\$c33c1d80\$5c32a7d0@ispchannel.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

If your reverse-polarity protection application can tolerate a 1.2 V drop (as a result of voltage drops across two silicon-diode junctions), putting a bridge rectifier at the dc-input of a rig will ensure that the polarity applied to the radio will ALWAYS be correct, regardless of the polarity applied to the input terminals of the bridge.

The bridge will always "steer" the voltage correctly. Draw the diagram of a bridge and trace the current flow for yourself to see how it works.

By the way, for what it's worth, you can use a similar technique to steer the current through a universal motor running on dc. The technique lets you actually reverse the motor when reversing the dc polarity that's applied (without the steering diodes, the motor will always run in the same direction, regardless of the applied polarity). In the motor application, the bridge steers the current through the armature; the field current remains unaffected by the bridge.

You can check out a tinplate toy train application that shows how this works at http://www.trainweb.org/s-trains/diagram/handcar_diode_hrm.htm.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Sam Billingsley

Sent: Sunday, September 03, 2000 8:26 AM

To: Low Power Amateur Radio Discussion

Subject: RE: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!

Everytime I read one of the horror stories it reminds me of my own (smoked my MFJ SWR Analyzer) and why the NOGA club created the NOGApig kit project. All this needless work and damage to you prized QRP rig can be avoided by building and installing a NOGApig. It's the best few bucks you will ever spend. Reverse voltage, Overvoltage, Undervoltage and Over current protection. Please check out the NOGA web page. Complete schmatics and

manual are available on -line for FREE.

Even if you don't want to buy a kit check the documentation out. The PIG uses a resettable (automatically) PolySwitch fuse devise that works over and over so the replacement cost for fuses alone with pay for the PIG over time. Sleep well at night knowing you valued rig is protected by a NOGApig.

Sam Billingsley AE4GX Atlanta, GA
personal web page at <http://ae4gx.home.mindspring.com/>
North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>

Subject: Argonaut 505 Reverse polarity?
n2go@arrl.net
Date: Sat Sep 02 2000 - 13:03:38 EDT

Did anyone ever reverse the battery connections to your ten tec 505? :))
It can happen when you don't pay attention.

>>>>>>snip>>>>

Date: Sun, 3 Sep 2000 10:34:38 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <malman@world.std.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78666] Re: [ANTENNA] Voltage Balun
Message-ID: <006f01c015b4\$a44ed420\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, there's plans all over the place for 9:1 baluns. And while 9:1 is a much better match to 450 line, just consider the whole package. What's the impedance of a resonant dipole? About 72 ohm, right? So if you feed that dipole with 450 line, what happens?

The Elecraft web page has a builders resource area. Just go there, then click on the ATU stuff. Then on THAT page there is a link to a whole series of balun pages, including 9:1 construction articles.

The end result is that most people who I've talked to who have actually DONE it (I personally haven't) have told me 9:1 baluns aren't a big deal. Just make a 4:1 and tune it. Use good quality

components in your antenna and feed line for low loss and the tuner takes care of it.

Unless your building something like a rhombic, which if I remember is about 450 ohms. In that case I think the advantage of having a match would be a big benefit.

And... I was about to post my own post on a balun story, but thats for a separate post.

Mike

> Folks,
>
> OK, I admit it, I'm just not swift when it comes to Baluns. I think I
> understand Current Baluns, but Voltage Baluns are a different animal.
>
> Background: I have a HUGH dipole out in the woods, it's up pretty high
> and does pretty well.. But being QRP I really want to get all the QRP RF
> out into the air. The lead into the shack is 450 Ohm ladder line (AKA
> window wire or open feed).
>
> I currently (no pun intended) use a 4:1 voltage balun to convert the
> the 450 ohm ladder line to about 50 Ohms that the rig wants to see. A
> pretty simple device (mostly right out of the ARRL Handbook).
>
> But it seems to me that if I used a 9:1 Voltage Balun (450 divided by 9
> equals about 50 ohms, last time I checked), I would get a MUCH better
> match at the rig antenna input.
>
> Am I all wet here? Will I get more RF out into the air with a 9:1 balun
> over the 4:1? Will it make a difference at all?
>
> How come I can not find a 9:1 voltage balun in the ARRL handbook (my
> version happens to be 1997).
>
>
> Thanks for reading ... GE ... joel (queen mary)
>
> --
> /joel K1QM (K1 Queen Mary), Concord, MA.
> QRP-L #337, QRP-ARCI #9305, MI-QRP #1641
>

Date: Sun, 3 Sep 2000 10:02:21 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@lehigh.edu>
Subject: [78667] FS: Three QRP tuners. cleaning shack.
Message-ID: <003b01c015b7\$f6b17f80\$d6c9e0d8@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Three nice tuners for sale. Was hoping I would be on the air more often.

MFJ-971 Tuner Like new QRP or up to 300 watts. Like new. \$55.00 plus help with shipping.

Emtech ZM-2 QRP tuner. nice condition. \$40.00 plus help with shipping.

LDG AT-11 Auto tuner. In LDG case... fairly recent upgrades... QRP levels through 100 watts. \$125.00 plus help with shipping.

Let me know if you have any questions. Will be away from computer until Monday evening, Sept 4th.

Thank you,

Kelly Ellison - WB0WQS

Date: Sun, 3 Sep 2000 11:00:27 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78668] K2 ATU and balun saga
Message-ID: <00cc01c015b8\$42c44a60\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, I ordered the ATU for my K2, and once it was built, quickly discovered I didn't have a balun. But it's easy to change the ATU mode to just be the SWR meter, and I could still use it with my

MFJ-901 tuner. ONE box and cable out of the way!!

But last night I got the clevers. I had found a couple of old toroids. Oh, not the correct ones for HF of course, but they were round, and they felt right... (Felt right meaning I could feel them! I had them in my hand, as opposed to any other balun I couldn't feel because it was still in some store somewhere...)

I figured, what's it going to cost? They tune up or they don't? So I threw 6 turns on the toroid of 24ga speaker wire and made a 4:1 balun.

I just soldered a piece of 300 twinlead it, and used the BNC to clip leads cable from my HP counter to hook the K2. Then laid it on the bed and 'twisted' the wires from the twinlead to the piece coming in my window.

BANG!!! I was on the air!!!

On all bands but 15M I hit the TUNE button and after a series of buzzing clicks, the K2 settles down to 1.3:1 SWR real quick. On 15M for some reason, it gets to 6:1 or so and then stops. Never even into the 5s. On 10M, I have to retune if I move frequency around more than 200khz.

On 40 and 80 last night the bands were hopping. On 80 SSB I couldn't even find a clear spot to hit the tune button!! I had to just dial till I heard a break, then tuned up. That tuned to 1.3. But I couldn't get a word in anywhere. 40 was almost as busy, and worked a few contacts there at 5W. Even had a LONG talk with Stu K4BOV in Corning NY. Not bad, him running a Swan with 400+ watts, me at 5...

20M seemed quiet, and tuned well. I heard the religious nets going on.

17M was 'interesting'. It tuned 1.0:1 And it was SILENT, just a hiss with the K2 preamp on. Then suddenly I heard Bob, W4LHZ booming lin like he was in my neighborhood. He was talking to a guy in NH, but being in southern MASS I couldn't hear him at all. Then a '6' station from LA came in there. I could hear him, and make out words, but not quite enough....

Above 17M I heard NOTHING but hiss. With the exception of the SWR spike on 15M, the rig tuned great!

But, I'm SURE my toroid is wrong. For HF it's junk! I just

grabbed anything round I found in the junkbox. I know I'll have to order the 'right one'.

So, are the symptoms I describe pretty consistant with useing a toroid for say AC noise supression at HF?

Mike
N1DVJ

Date: Sun, 3 Sep 2000 11:11:11 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <ai2q@ispchannel.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78669] Re: Argonaut 505 Reverse polarity? Another Horror Story and why you need a NOGApig!
Message-ID: <00de01c015b9\$c0d213a0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The bridge is a neat trick when you WANT it to work both ways.

But people should consider if they actually NEED that feature. Sure, a truckdriver moving a rig from a negative ground personal car to a positive ground Mack every day may NEED that capability. If it works with the drop.

But in most cases, it's really a question of just not damaging things. In that case, use the SINGLE diode in series with HALF the forward drop of the bridge. If it works, fine. If it doesn't, then flip the leads.

But what if ANY drop is unacceptable?

Sure, put a dioder ACROSS the leads, and use it to force a blown fuse if it's hooked up wrong. But sooner or later even the BEST of us (or someone we LOAN the rig too, right?) will put in a BIGGER fuse. What then? Hide another fuse inside? Fuses also limit current. And while having the rig down is better than having it down from destruction but that doesn't help at critical times.

So....

Put in a RELAY in the power line. And power the relay from through a diode in the right direction.

Hook it up wrong, the relay stays open, the rig is dead, no damage. Hook it up right, the relay powers, closes, the rig comes alive.

And, it was once suggested to save power to hook the relay up so that in normal operation it is closed, but it detects reverse power to OPEN. But that relay had better be FAST. I know that I wouldn't trust it! Especially for mobile use, where a 'weak' battery could make the relay open slowly, but even a weak battery can pump HUNDREDS of amps...

Mike

> If your reverse-polarity protection application can tolerate a 1.2 V drop
> (as a result of voltage drops across two silicon-diode junctions), putting
> a
> bridge rectifier at the dc-input of a rig will ensure that the polarity
> applied to the radio will ALWAYS be correct, regardless of the polarity
> applied to the input terminals of the bridge.

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> The bridge will always "steer" the voltage correctly. Draw the diagram of
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> bridge and trace the current flow for yourself to see how it works.

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> By the way, for what it's worth, you can use a similar technique to steer
> the current through a universal motor running on dc. The technique lets
> you

> actually reverse the motor when reversing the dc polarity that's applied
> (without the steering diodes, the motor will always run in the same
> direction, regardless of the applied polarity). In the motor application,
> the bridge steers the current through the armature; the field current
> remains unaffected by the bridge.

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> You can check out a tinplate toy train application that shows how this
> works

> at http://www.trainweb.org/s-trains/diagram/handcar_diode_hrm.htm.

>
> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

>

>

>

>

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Sam Billingsley
> Sent: Sunday, September 03, 2000 8:26 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Argonaut 505 Reverse polarity? Another Horror Story and why
> you need a NOGApig!
>
>
> Everytime I read one of the horror stories it reminds me of my own (smoked
> my MFJ SWR Analyzer) and why the NOGA club created the NOGApig kit
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> All this needless work and damage to you prized QRP rig can be avoided by
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> spend. Reverse voltage, Overvoltage, Undervoltage and Over current
> protection. Please check out the NOGA web page. Complete schematics and
> manual are available on -line for FREE.
> Even if you don't want to buy a kit check the documentation out. The PIG
> uses a resettable (automatically) PolySwitch fuse devise that works over
and
> over so the replacement cost for fuses alone with pay for the PIG over
time.
> Sleep well at night knowing you valued rig is protected by a NOGApig.
>
> Sam Billingsley AE4GX Atlanta, GA
> personal web page at <http://ae4gx.home.mindspring.com/>
> North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>
>
>
>
> Subject: Argonaut 505 Reverse polarity?
> n2go@arrl.net
> Date: Sat Sep 02 2000 - 13:03:38 EDT
>
> Did anyone ever reverse the battery connections to your ten tec 505? :))
> It can happen when you don't pay attention.
>
> >>>>>>snip>>>>>
>
>

Date: Sun, 3 Sep 2000 09:21:09 -0600
From: "al dawkins" <alk0frp@home.com>
To: <qrp-1@lehigh.edu>
Subject: [78670] PSK-31 sprint

Message-ID: <00cc01c015ba\$968569c0\$0300a8c0@j5m9s4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rod N0RC replied to the Message saying ARCI will sponsor a PSK31 sprint, I did not see it in the QRP Quarterly July issue. Did go to the ARCI web site and it is listed. September 10th 2000 to 2400z. That's great CQC can do it later this year or with the contest season coming we can delay the sprint till next year.
I will still help anyone who wants info on getting their equipment going.
See ya all Sept 10th
Al K0FRP

Date: Sun, 3 Sep 2000 10:41:56 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [78671] Re: [ANTENNA] Voltage Balun
Message-ID: <20000903.114259.4479.14.kc8aon@juno.com>

Joel,

I agree with the gent that said to just run the balanced line all the way to the balanced output of the tuner ! That way your rig will see a perfect match and as a bonus you get multi-band operation with one antenna ! For a 9:1 balun to even come close to working with a dipole, you would need 2 of them. One at the antenna to convert it's low impedance to the 450 ohm, and one at the rig to convert it back to the 50 ohm. But this transformation would only take place at one band. If you are only going to work one band, just skip the balanced feedline and install low loss coax to get a good match. Hope this helps.

73,
Rick McKee, KC8AON
Willow Wood, Ohio

Anagram: A new word or phrase derived by using the letters of another word or phrase.

Anagram for "The Morse Code" --- Here Come Dots !

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 03 Sep 2000 11:51:00 -0400
From: John Wagner <john@neknetwork.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78672] Re: Fox: 40 mtr Fox Hunt Team Guidelines
Message-ID: <39B27364.3A6A275C@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Kewl...

I would like to form a team representing New England for the 40m winter hunt... we can make up a catchy name. :)

Please email me directly if interested.

73,

John, KB1ENS

Bruce Rattray wrote:

>
> *****
>
> Hello everyone!...here are the Team Guidelines for the Winter Fox Hunt
> which begins in October...when you have your Team of 5 stations formed
> please send me an e-mail so I can include you on the Official Teams

--
John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>
Personal Web page: <http://www.together.net/~jwag>

Date: Sun, 3 Sep 2000 09:59:19 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78673] Re: PSK-31 sprint
Message-ID: <00e401c015bf\$ee27daa0\$888611d8@zephyr>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

AL, et.al.

First, for all who are interested, the info for the QRP-ARCI "End of Summer PSK-31 Sprint":
<http://personal.palouse.net/rfoltz/arci/psk31.htm> please join us

Second, cool idea Al, I'd love to see a second PSK-31 sprint/contest. I haven't looked at the contest calendars but my vote would be for late winter early spring.

Folks, if you haven't tried PSK-31 yet you missing something quite fun and enjoyable. This mode is made for QRP and is really quite easy to get started with. I have used the PSK-20 from Small Wonder Labs, great mono-band QRP psk-31 rig. I highly recommend it. If you enjoy building, the PSK-20 is by far the easiest way to get started with PSK-31.

I've also used my Icom 746. I used a very simple cable lash-up, the one offered up in the DigiPan software. Some wire, connectors a switching XSTR.... Very easy, works well.

For software I recommend DigiPan to get started with. DigiPan has a very simple easy to understand user interface and feature set. In fact DigiPan is like "Software QRP", simple, elegant, and very effective. Better still, it's free! How cool is that?

Finally, to anyone who wants help getting started with PSK-31, add my name to the "Electronic Elmers" list. Drop me a line, and I do what I can to help.

72/3 Rod, NØRC -- Fort Collins, CO

----- Original Message -----

From: al dawkins <alk0frp@home.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, September 03, 2000 9:21 AM

Subject: PSK-31 sprint

> Rod NØRC replied to the Message saying ARCI will sponsor a PSK31 sprint, I

> did not see it in the QRP Quarterly July issue. Did go to the ARCI
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> I will still help anyone who wants info on getting their equipment
going.
> See ya all Sept 10th
> Al K0FRP
>

Date: Sun, 3 Sep 2000 17:04:21 +0100
From: "M0CQG" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78674] Balanced antenna, unbalanced ATU?
Message-ID: <006501c015c1\$0f079340\$ee6445c2@UKsolsf56>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all

This recent talk of baluns and such prompts me to ask a question which I'm
sure must have been asked and answered on here many times before...

I have a balanced antenna, say, a dipole, fed with 75 ohm twinfeed - or
maybe with 300 ohm slotted (conveniently, these are the two types of feeder
I have tons of lying around!). My ATU, however, does not have balanced
output, only unbalanced coaxial. I know I need a balun, but where do I put
it - between the ATU and the feeder, or between the radio and the ATU? What
are the benefits / pitfalls with each?

Also, let's say I use the 300 ohm feeder instead of the 75. Bearing in mind
the characteristic impedance of my dipole at resonance is between 70 - 75
ohms, what effect will the feeder have on the impedance seen at the ATU
end - will I need to use a 4:1 balun transformer, or can I stick with a
straight 1:1 balun?

Apologies for the dumb question - I'm still relatively new to this stuff
(but learning all the time...)...

Thanks & 73

Mike
M0CQG

Date: Sun, 03 Sep 2000 10:18:05 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <malman@world.std.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [78675] Re: [ANTENNA] Voltage Balun
Message-ID: <B5D7D5DC.2557%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Joel - This question comes up every so often.

The short answer is that since the impedance at the tuner end of your transmission line varies all over the place, the transformation ratio of the balun doesn't much matter. Your 4:1 will do as good a job or better than a 9:1 will do.

However, there are some points you may wish to consider.

1. Current baluns provide a better balance than do voltage baluns. Lewellen, W7EL showed this in his classic article in Antenna Compendium Vol.1.
2. Most antenna tuners work better with higher impedance loads than they do with lower impedance loads. If the load is very low, such as a 80 M dipole being used on 160 M, then the 4:1 balun will make a low impedance even lower, and push you further in the direction of poor tuner operation.
3. A 1:1 current balun is easy to make. It will probably do a better job for you than the 4:1 voltage balun you are currently using.
4. If a balanced tuner such as the Z-match is used, then the question of baluns become moot. The ZM-2 by EmTech is an excellent tuner of this type. For 40 M and 20 M use only, it is hard to beat the BLT, also a Z-match, being sold by NorCal for \$25. A used Johnson Matchbox is also a good choice, although it has somewhat limited matching range.

Having laid the groundwork above, here is what I suggest to you. You have several options.

1. Do nothing. The 4:1 balun, while not being the best choice, is not a disaster either. It works, and depending on the situation, you may not notice the deficiencies.
2. Replace the 4:1 voltage balun with a 1:1 current balun. Depending on your application there are several choices here as well, air core, scramble wound, bead balun, and torroid. I have posted here before on the various construction techniques used, and can point you in the right direction if you wish.
3. Use a balanced tuner and eliminate the question all together.

These discussions on baluns invariably draw a lot of impassioned replies, so brace yourself for a full mailbox.

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 3 Sep 2000 09:22:01 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'m0cqg@dial.pipex.com'" <m0cqg@dial.pipex.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78676] RE: Balanced antenna, unbalanced ATU?
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBD34@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Most of the commercial ATUs include a balun at the output. There are so pros and cons to this- such as how well does the balun work once there are reactances on the feedline or an impedance other than the design impedance of the balun (most ATU baluns are 50:200 ohms).

Some amateurs have found that designing an ATU with the balun at the input (a 50:50 ohm balun usually) will have less loss since it is looking into the impedance it was designed for, as provided by a properly adjusted ATU. The only trouble for the builder is that ATUs with input baluns are harder to construct. More effort will go into isolating the components from ground.

I've heard good things about balance and loss in the z-match family of QRP tuners. You might look these up, and several kit companies in the US offer versions of the Z-match. This is a small, QRP tuner which uses a mix-2 or mix-6 toroid, and small air or plastic variable caps. Some models feature an SWR bridge and LED match indicator.

A few weeks ago, I think there were some posts on tuner loss comparisons. A 3dB loss through a typical "cheapo" commercial T-plus-balun ATU may go unnoticed on QRO but at qrp that would be equal to 5 watts into the ATU and 2.5 watts out.
73
Jay
W6CJ

-----Original Message-----
From: M0CQG [mailto:m0cqg@dial.pipex.com]
Sent: Sunday, September 03, 2000 9:04 AM
To: Low Power Amateur Radio Discussion
Subject: Balanced antenna, unbalanced ATU?

Hi all

This recent talk of baluns and such prompts me to ask a question which I'm sure must have been asked and answered on here many times before...

I have a balanced antenna, say, a dipole, fed with 75 ohm twinfeed - or maybe with 300 ohm slotted (conveniently, these are the two types of feeder I have tons of lying around!). My ATU, however, does not have balanced output, only unbalanced coaxial. I know I need a balun, but where do I put it - between the ATU and the feeder, or between the radio and the ATU? What are the benefits / pitfalls with each?

Also, let's say I use the 300 ohm feeder instead of the 75. Bearing in mind the characteristic impedance of my dipole at resonance is between 70 - 75 ohms, what effect will the feeder have on the impedance seen at the ATU end - will I need to use a 4:1 balun transformer, or can I stick with a straight 1:1 balun?

Apologies for the dumb question - I'm still relatively new to this stuff (but learning all the time...)...

Thanks & 73

Mike
M0CQG

Date: Sun, 03 Sep 2000 11:39:00 -0500
From: "George, W5YR" <w5yr@att.net>
To: JCoote@ci.arcadia.ca.us
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78677] Re: Balanced antenna, unbalanced ATU?
Message-ID: <39B27EA4.5253B2FA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just the added comment that Roy Lewallen, W7EL, has shown conclusively that placing the balun at the input of the tuner does nothing to enhance its current-balancing properties.

I have operated a conventional single-ended tuner - Drake MN-4 - with balanced line connected to the output and a 1:1 current balun on the input in the coax to the rig and that worked well. There was some body-capacity effect and it is, of course, necessary to insulate the chassis and cabinet of the tuner and to minimize any capacitance to other objects, all of which will increase any unbalance.

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

"Coote, Jay" wrote:

>
> Most of the commercial ATUs include a balun at the output.
> There are so many pros and cons to this- such as how well does the balun work
> once there are reactances on the feedline or an impedance other than the
> design impedance of the balun (most ATU baluns are 50:200 ohms).
>
> Some amateurs have found that designing an ATU with the balun at the
> input (a 50:50 ohm balun usually) will have less loss since it is
> looking into the impedance it was designed for, as provided by a
> properly adjusted ATU. The only trouble for the builder is that ATUs
> with input baluns are harder to construct. More effort will go into
> isolating the components from ground.
>
> I've heard good things about balance and loss in the z-match family of

> QRP tuners. You might look these up, and several kit companies in the
> US offer versions of the Z-match. This is a small, QRP tuner which uses
> a mix-2 or mix-6 toroid, and small air or plastic variable caps.
> Some models feature an SWR bridge and LED match indicator.
>
> A few weeks ago, I think there were some posts on tuner loss
> comparisons. A 3dB loss through a typical "cheapo" commercial
> T-plus-balun ATU may go unnoticed on QRO but at qrp that would be equal
> to
> 5 watts into the ATU and 2.5 watts out.
> 73
> Jay
> W6CJ

Date: Sun, 3 Sep 2000 13:08:02 -0400
From: n4qa@juno.com
To: qrp-1@Lehigh.EDU
Subject: [78678] RE: Argonaut 505 Reverse polarity? Another Horror Story and why
you need a NOGApig!
Message-ID: <20000903.130808.-86641.0.n4qa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi, gang.
The bridge, itself, must be correctly connected or bad things will
happen.
Assuming correct connections to the diode bridge, there is, at least, one
case where using a diode bridge for reverse-polarity protection results
in only ONE diode drop.
Consider a mobile installation:
Talking MODERN mobile installations, now. No positive ground antiques :)
The vehicle battery is ALWAYS connected to vehicle chassis, right ?
If properly installed, the rig's chassis is ALWAYS connected to vehicle
chassis, eh ?
The rig's "negative rail" is ALWAYS connected to rig chassis, n'est pas ?
Ok, now redraw the circuit and you will see that in THIS case, one diode
or another will be shorted across, no matter which way the battery is
connected...no problem.
The only instance of two diode drops is when supply and load "grounds"
are isolated.
I, too, have inadvertently made reversed connections with catastrophic
results.
While there have been many good attempts at making the process "idiot
proof", IMHO, the best method is to take one's time and hook it up
correctly and ALWAYS use proper fusing in the supply line!

Color-coding is VERY helpful:

I wanted to clearly identify the positive terminal of my deep-cycle marine battery so I borrowed some red fingernail polish from the Wife and doped the base of the positive terminal liberally... ok, it was hot pink...the Wife was out of red.

Ok, I realize that not everyone uses large batteries for their supplies but please note:

It cannot be overemphasized how dangerous automobile/marine etc batteries can be.

Their short-circuit current-delivering capability is HORRENDOUS ! Be careful !

73,

Bill, N4QA

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Sep 2000 10:11:48 -0700 (PDT)

From: Richard Fisher <ki6sn@yahoo.com>

To: QRP-L Reflector <qrp-l@lehigh.edu>

Subject: [78679] Announcing September's Spartan Sprint

Message-ID: <20000903171148.15618.qmail@web208.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

The September Spartan Sprint will be held on September 4, 2000 (which is our standard date--the first Monday of the month). You may operate on any one or more of five bands--80, 40, 20, 15, and 10 meters. Don't worry if your station is a bit obese. We commend the winners in two categories--points (the Tubby Division), and points per pound (the Skinny Division).

The September Sprint is coordinated with the Michigan QRP Club Labor Day

Sprint. The Spartan Sprint overlaps with the last two hours of the Michigan

event. Both contests include the operator's power level in the exchange.

Therefore, you may log each contact in both contests. If a station

gives
you his Michigan membership number instead of a power level, just log
the
membership number. Easy!

If you are a newcomer to the Sprints, take a look at the introductory
material at the end of this post.

1. Start at 9:00 PM EDT, 8:00 CDT, 7:00 MDT and 6:00 PDT. Finish at
11:00 PM
EDT, 10:00 CDT, 9:00 MDT and 8:00 PDT. In terms of UTC, start at 0100
and
finish at 0300.
2. The frequencies will be 3560+- kHz, 7040 kHz+-, 14060 kHz+-, 21060
kHz+-,
and 28060 kHz+-. (You may operate any number of bands--your choice.)
3. Exchange RST, SPC (state, province or country) and power output.
4. If you choose to call CQ, use the format "CQ SP," or "CQ QRP TEST."
5. You can take credit for working the same station on a second, third,
or
fourth band.

After the contest, we invite you to use our autolog, which is part of
the
ARS Sojourner. Just go to www.natworld.com/ars and follow the link for
"Direct access to autologs". Or you can speed things up by going
directly to
the Spartan Sprint autolog page at www.natworld.com/ars/ss_log.html.

If you don't have access to the web, send Russ Carpenter, AA7QU, an
e-mail
with your total QSOs and the total weight of your station (i.e., the
combined weight of all transmitters, receivers, keys, keyers and
batteries
used during the Sprint). You may also include your comments from the
soapbox. Russ' email address is russ@natworld.com.

The Spartan Sprint is based on a simple but stimulating concept. We are
encouraging all of you to cobble together the kind of station you'd use

in a
portable environment--lightweight transceiver, keyer, key, and battery.

Then
put that turkey on the air, and participate in a two hour sprint.

All operators are invited to play, whether or not they are members of
Adventure Radio Society. Even if you don't have lightweight equipment,
your
participation will be rewarding, both for you and the other
participants.
We'll report the score in two different formats--absolute scores, and
points
per pound of station weight. So you can get your kicks from running up
a
magnificent score, or achieving an remarkable ratio of points per
pound.

If you're thinking about becoming a member of Adventure Radio Society,
just
send Richard Fisher, KI6SN, (our membership chairman) an e-mail
expressing your
interest. Richard's e-mail address is KI6SN@aol.com. Membership is
free, and
the organization has a great group of men and women who combine their
love
of ham radio with their affection for the outdoors. You don't need to
be a
macho person; ARS welcomes people of all ages and levels of ability.

Russ Carpenter, AA7QU, Contest Manager

russ@natworld.com

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Sun, 3 Sep 2000 13:22:07 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <n4qa@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78680] Re: Argonaut 505 Reverse polarity? Another Horror Story and why
you need a NOGApig!
Message-ID: <001901c015cb\$7e94cfc0\$0600a8c0@dad>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> The rig's "negative rail" is ALWAYS connected to rig chassis, n'est pas ?

Gotcha...

This is NOT always true. It is GENERALLY true in rigs that are designed for one polarity ground only, but NOT always the case.

I've seen rigs that capacitively isolate the chassis from the electronics, and only tie to the chassis in the 'passive' components near the antenna, or the input jacks.

Rigs that are designed for dual polarity (or maybe even rigs that STARTED design life as dual polarity, even if they end up not being so) will usually have the capacitively coupled chassis.

I saw one rig a few years ago, don't recall what it was, but it was obviously built for dual polarity, then they just 'shorted' the chassis to the PCB. Almost as if they tried to make it both ways, then at the end it didn't meet spec or something, and just made the hard jump intentionally so it couldn't.

Mike

Date: Sun, 03 Sep 2000 18:20:10 +0200
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [78681] Amidon changed iron powder material numbering!
Message-ID: <39B27A3A.D33635BC@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

I checked out Amidon's www-pages today and was pretty surprised to see they have changed the numbering of their iron powder materials!

What used to be #2 is now #06 (red/gray) and what used to be #6 is now #04 (yellow/gray) etc. Amidon's URL is <http://www.amidoncorp.com/>

--

Arjen Raateland
OH2ZAZ

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Sun, 3 Sep 2000 13:36:28 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78682] Re: K2 ATU and balun saga
Message-ID: <001e01c015d5\$e04e0240\$43014d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well Mike, it makes you wonder if you needed the balun at all. It would have been easier to just use the same balun that you made but connect the rig to one end of the speaker wire and the feed line to the other and it would have been then called a 1:1 choke balun. You may have been able to tune 15 then. Actually over 25 years I have found that I am more likely to find a match when I use a 1:1 balun. Quite often I just skip the balun and it works just fine and since most back yard dipoles are not ideally identical on both sides (meaning non radio stuff like the house, swing sets, metal fences, sheds and garages) then it is probably not too well balanced anyway. I think the real need for a balun is for when you are experiencing RF in the shack. Sometimes things just work out, for example when I check into the NoGa net on 3686 khz I just plug the open wire feed into my rigs coax jack (I use a connector with clip leads) and experience a perfect match. This is just a lucky coincidence where my 500 foot loop and my particular length of open wire feed just happens to be 50 ohms at 3686 khz.

Hams seem to be hung up on balance and baluns. A few years ago I did the installation of a couple of commercial HF stations using Harris ALE equipped radio transceivers. The antenna was simple: a fan dipole feed with open wire line to the tuner and no balun. Yes, one side of the open wire was connected to the antenna tuner ground. This was at the direction of the engineers at Harris Radio Company.

Keep on experimenting Mike, that's how we learn.

Mike Branca W3IRZ in Conyers Georgia

On Sun, 3 Sep 2000, Arjen Raateland wrote:

That's awfully strange. The earlier numbering conforms to the Micrometals numbering, which is where they get most, if not all, of their material from.

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Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 03 Sep 2000 18:41:34 +0200

From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: ctrask@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78684] Re: Amidon changed iron powder material numbering!
Message-ID: <39B27F3E.8146C979@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Chris Trask wrote:

>
> On Sun, 3 Sep 2000, Arjen Raateland wrote:
>
> > I checked out Amidon's www-pages today and was pretty surprised to see
> > they have changed the numbering of their iron powder materials!
> >
> > What used to be #2 is now #06 (red/gray) and what used to be #6 is now
> > #04 (yellow/gray) etc. Amidon's URL is <http://www.amidoncorp.com/>
> >
>
> That's awfully strange. The earlier numbering conforms to the
> Micrometals numbering, which is where they get most, if not all, of their
> material from.

Many Amidon pages still have the old numbering, but below is the page I found which has a new numbering scheme. I couldn't readily find it when I looked again, but I copied the URL from my print-out into the browser window and the page came right up again:

<http://www.amidoncorp.com/mfg/iron.htm>

73

--

Arjen Raateland
SAS Support
Finnish Environment Institute, Helsinki

AX.25: 0H2ZAZ@0H2RBI.FIN.EU

Date: Sun, 3 Sep 2000 14:53:12 -0400
From: "Mike Yetzko" <myetzko@insydesw.com>
To: <w3irz@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78685] Re: K2 ATU and balun saga
Message-ID: <021001c015d8\$3ace6d20\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

You might be right. In fact, tonight I was going to take the same setup, but WITHOUT the balun, and see what happened. Just take the BNC to clips cable and hook it directly to the twinlead coming in the window. Just to see what it does. If it tunes everywhere, I just might make up a short cable to screw terminals. Thing in, when I did some other stuff, I trimmed my twinlead since I figured I'd set the 'balun box' in the windowsill.

Ooops!

No matter. I plan on ordering about a dozen toroids and making up a couple different 1:1 and 4:1 baluns. There's lots of slightly differnt plans, so I'm going to start playing...

Mike

Date: Sun, 3 Sep 2000 15:10:20 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w3irz@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78686] Re: K2 ATU and balun saga
Message-ID: <025001c015da\$a82dc6c0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, I was mucking around on the Amidon page, and they have torroid experimenters kits...

\$20 or so.

I just may

So, anyone have recomendations for which 'kit' is the best to get?
I was thinking of the IP #2 kit.

Mike

Date: Sun, 03 Sep 2000 12:24:44 -0700
From: "Eric Swartz - Elecraft, WA6HHQ" <eric@elecraft.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [78687] Re: Amidon changed iron powder material numbering!
Message-ID: <39B2A57C.26FA1368@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Amidon is now making many of their own powdered cores instead of buying them from Micrometals. We have found that their cores vary widely in permeability from those made by Micrometals. As a result we now only buy Micrometals cores for our projects.

73, Eric WA6HHQ
<http://www.elecraft.com>

=====

You Wrote:

That's awfully strange. The earlier numbering conforms to the Micrometals numbering, which is where they get most, if not all, of their material from.

Date: Sun, 3 Sep 2000 12:50:33 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: "Eric Swartz - Elecraft, WA6HHQ" <eric@elecraft.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78688] Re: Amidon changed iron powder material numbering!
Message-ID: <Pine.BSI.3.96.1000903124720.4010A-1000000@usr01.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 3 Sep 2000, Eric Swartz - Elecraft, WA6HHQ wrote:

> Amidon is now making many of their own powdered cores instead of
> buying them from Micrometals. We have found that their cores vary
> widely in permeability from those made by Micrometals. As a result
> we now only buy Micrometals cores for our projects.
>

That's good to know. I have been buying Micrometals cores in quantity for some time now, usually through Lodestone Pacific, so as to take advantage of the quantity pricing. Between them and Eastern Components, I can get pretty much anything that I need.

[illegible]

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Date: Sun, 3 Sep 2000 15:50:27 -0700
From: "Gary McCaughey" <MAIL4GARY@worldnet.att.net>
To: <qrp-l@lehigh.edu>
Subject: [78689] Dead FT-243 XTAL Question
Message-ID: <000901c015f9\$5ccdb900\$7edc4d0c@garymcca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I picked up two FT-243 XTALS yesterday at a Hamfest. Both for exactly 7040.00 . What luck!!! I put them in my XTAL checker and one sings perfectly....the other appears to be dead. I have been a ham for 32 plus years and believe it or not I have never taken apart a XTAL. I always considered them sacred territory!! Can anything be done to rejuvenate it?

Thanks for all the input in advance.

CW is the REAL THING, USE IT or LOSE IT!

Date: Sun, 3 Sep 2000 14:34:15 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>

To: QRP-L List <qrp-l@lehigh.edu>
Subject: [78691] Nice Ending
Message-ID: <Pine.LNX.4.10.10009031421160.1039-1000000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Summer FOX Hunt came to an end for me at 2013Z when Paul gave me a 559 and got my numbers. The propogation Gods were with me because Marshall who is way too close was much stronger than Paul and heard my second call. Another factor is that it's broad daylight both places.

N1FN Marshal and AJ4Y Paul are both great operators! They are working stations as fast as they can and I'm sure many Hounds will end this wonderful First (I hope annual) Summer Hunt with a clean sweep of the last 2 FOX.

This is the first QRP contest I have entered and what with a web page and all the talk on the QRP-L list it's been a ball. While I write this e-mail I hear AJ4Y building up signal strength here in southern NM on my modified Ten Tec Argonaut 509. With 2 exceptions all FOXes worked were done using the Argonaut. The 2 odds were with my mobile TS-50 at 5 watts.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 03 Sep 2000 15:49:44 -0500
From: Lee Bahr <w5drc@earthlink.net>
To: ctrask@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78692] Re: Amidon changed iron powder material numbering!
Message-ID: <39B2B968.53B8803@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Would someone please post a good source for Micrometals cores so we do not have to address this nightmare Amidon is about to impose on us? An address and phone number plus e-mail address if available would be great. Thanks.
Lee Bahr w0vt

Chris Trask wrote:

>
> On Sun, 3 Sep 2000, Eric Swartz - Elecraft, WA6HHQ wrote:
>
> > Amidon is now making many of their own powdered cores instead of
> > buying them from Micrometals. We have found that their cores vary
> > widely in permeability from those made by Micrometals. As a result
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> That's good to know. I have been buying Micrometals cores in
> quantity for some time now, usually through Lodestone Pacific, so as to
> take advantage of the quantity pricing. Between them and Eastern
> Components, I can get pretty much anything that I need.
>
> Chris
>
>
> /-----\ High Performance Mixers and
> / What's all this Amplifiers for RF Communications
> / extinct stuff, anyhow? \
> \-----/ Chris Trask / N7ZWY
> _ | / Principal Engineer
> oo\ Sonoran Radio Research
> (__)\ P.O. Box 25240
> \ Tempe, Arizona 85285-5240
> / IEEE Member #40274515
> \ Email: ctrask@primenet.com
> / http://www.primenet.com/~ctrask
> \ c__; c__; '-..'>._
>
> Graphics by Loek Frederiks

Date: Sun, 3 Sep 2000 15:56:57 -0500
From: "David Bixler" <qrp@netins.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78693] Fox - Thanks for the Summer Fox Hunt
Message-ID: <LPBBJOMLLEAMGKJIGOGDGEENCBA.qrp@netins.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello gang:

I would like to express my thanks to the QRP-L Summer

Foxhunt Committee, N1TP, K0EVZ, K1MG, N1FN and especially to the Foxes for the exciting hunt. It was indeed an interesting experience seeing how 20 meter propagation works.

Here at W0CH we managed to capture 17 fox pelts from the 20 hunts. The other three managed to skip right over the ol' Missouri homestead with hardly a whisper heard.

I used exactly the same two wire antennas on 20 meters that I use for the 40 meter hunts: a 40 meter dipole and a 40 meter elevated wire groundplane, both fed with 450 ohm line.

Looking forward to the winter season hunts. Anyone need another team member?

Thanks for the fun.

Dave

David Bixler W0CH - VK2IQX
Seneca, Missouri QRP-L # 618
<http://www.qsl.net/w0ch/>

QRP: Little radios, big fun!

Date: Sun, 3 Sep 2000 16:13:54 -0500
From: George F Franklin <w0av@juno.com>
To: MAIL4GARY@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [78694] Re: Dead FT-243 XTAL Question
Message-ID: <20000903.161355.-587017.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Gary,

Many moons ago we used to open up the FT243 xtals and carefully clean the electrodes and the crystal itself, using soap and water. It is better to heat dry instead of using paper towel, ie. no lint.

First check the crystal holder to be sure that the thin wires from the pins to the electrodes are intact.

If the crystal has a hold burned in the center (really) it was probably used in a 6L6 or even a 210 (Tube type power oscillator) transmitter without a series lamp/fuse and is kaput.

Of course if it is cracked or shattered, fini also.

Good luck!

de George/W0AV
SOC#101

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 03 Sep 2000 17:15:51 EDT
From: Kevin L Anderson <k9iua@juno.com>
To: qrp-1@lehigh.edu
Subject: [78695] FOX -- Thank you for the Summer Fox event
Message-ID: <20000903.161325.5367.1.K9IUA@juno.com>

QRPers:

Well, I worked both Marshall and Paul today to end the season at 12 out of 20. Those that I couldn't work were either too close for me or occurred on days I wasn't able to operate -- none were "skunks" in the sense of my calling all 2 hours and not working them.

Thank you to one and all for this summer Fox event. Until this year, 20m was a band I generally stayed off of (with 40m almost exclusively my band) -- now I will likely split my time more evenly over 40, 20, and 15m.

Thanks again, Marshall, Doc, and the others who both planned this event and served as foxes. I'm looking for to the 40m event.

Cheers/73. Kevin, K9IUA

Kevin Anderson, K9IUA, Lincoln/Bismarck ND

e-mail: K9IUA@juno.com Opinions all my own.

* * * * *

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Sep 2000 14:19:58 -0700 (MST)

From: Chris Trask <ctrask@primenet.com>

To: Lee Bahr <w5drc@earthlink.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [78696] Re: Amidon changed iron powder material numbering!

Message-ID: <Pine.BSI.3.96.1000903141244.6871A-100000@usr07.primenet.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 3 Sep 2000, Lee Bahr wrote:

> Would someone please post a good source for Micrometals cores so we do
> not have to address this nightmare Amidon is about to impose on us? An
> address and phone number plus e-mail address if available would be
> great.
>

You can buy Micrometals cores (in quantity) from:

Lodestone Pacific
4769 Wesley Drive
Anaheim, CA 92807
Tel: (800) 694-8089
Fax: (714) 970-0800
Email: sales@lodestonepacific.com
URL: www.lodestonepacific.com

and also:

Eastern Components
Tel: (800) 223-3850 Pennsylvania
 (800) 862-1640 Illinois
 (800) 642-0518 MA
 (800) 824-8596 California
URL: www.eastern-components.com

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High Performance Mixers and


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Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 3 Sep 2000 17:39:21 -0400
From: w2xn@juno.com
To: qrp-l@lehigh.edu
Subject: [78697] Sunday Foxhunt
Message-ID: <20000903.173925.-710105.21.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Both Marshall and Paul are doing a great job of being a fox. They really sound like they are making contacts right on into the second hour.

Great job, Marshall and Paul.

Fred W2XN w2xn@arrl.net
Lakeland, FL
ARRL, ARES, Skywarn #POL-007, VE
ORP: AR #233, ORP-L #1728, NJ #197, Zombie #709, FP #126

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Sep 2000 17:35:08 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: "Gary McCaughey" <MAIL4GARY@worldnet.att.net>, qrp-1@Lehigh.EDU
Subject: [78698] Re: Dead FT-243 XTAL Question
Message-ID: <20000903213624.UXMQ25050.invictus@n8et>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Gary -

It has been a few years (HI!) but as I recall, you could open those things up and clean the crystal with alcohol - don't touch the flat sides of the xtal with your fingers after you clean it. Use a q-tip to clean it, and put it back together and see if that clears up the problem.

GL!

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sat, 2 Sep 2000 16:49:06 -0500
From: "TC Dufresne" <tdufres@radiks.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78699] Hmebrew QRP woes
Message-ID: <005901c01527\$9feea960\$57f31dce@server>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OOPS! I accidentally reverse connections on my battery on my homebrew rig. Now I just keep shorting out my trace that carries power to my PA. Could I have toasted all my caps thereabouts? I notice that they have continuity now, the new ones don't...I am using three caps and two electrolytics. They all have continuity now....
Is that why I keep shorting out the trace that powers my PA? I have the oscillator ok, but no power...:(After it was doing so well...
back to the drawing board?
Tom

Date: Sun, 03 Sep 2000 17:49:24 -0400
From: John Wagner <john@neknetwork.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78700] Fox- Keep on it - it pays off!
Message-ID: <39B2C764.E5175A61@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wow, what a day in the field. Heard Marshall right off, then the pileup! Took me 24 minutes to finally punch my 5w's through and take a shot that counted... and just like Thursdays hunt, the second fox was barely audible... drat...

I pinched the paddles, squeezed the filters, switched antennas, swore at the cat, none of it worked! Paul was in and out, mostly out! I finally nailed him 2135 after over an hour of QRM es QSB.

That was FUN!!! Two double hunts and two double pelts. I don't think my final tally was that good, but who cares, it's been a blast.

Marshall (ET) and Paul, thanks for an exciting hunt and again thanks to the summer fox committee for putting it together and making it work so well.

Also, thanks to all the fellow hounds for coming out and enjoying the fun! Without us hounds those foxii would be sleeping in their den!

Nice work everybody.

73,

John, KB1ENS
Holland, VT

--

John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>
Personal Web page: <http://www.together.net/~jwag>

Date: Sun, 3 Sep 2000 17:48:35 -0400
From: n4qa@juno.com
To: qrp-1@Lehigh.EDU
Subject: [78701] Re: Dead FT-243 XTAL Question

Message-ID: <20000903.174837.-86641.1.n4qa@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Hi, Gary.

I agree with Thom that it would, at least, be educational to take the xtal apart and have a looksee.

But, just in case the assembly is reparable, you might consider the following:

Depending upon whether the xtal has been disassembled before and some parts lost,

there should be three flathead screws making a triangular pattern in the holder.

CAREFULLY remove these screws... there should be a conically-shaped spring inside and, once the seal is broken between the lid and the gasket immediately below, the whole assembly may fly apart. As you're taking the thing apart, pay close attention to the order of... and orientation of... all parts inside. The xtal element, itself, is in the center of the whole thing, sandwiched in by a couple of finely-machined metal plates and a couple of copper tabs which are the final connection to the xtal pins... may be a phenolic plate and/or some "other stuff" in there, too(it's been a long time). Point is, if there is any hope of fixing the thing, you MUST reassemble it properly. Once you have all the parts safely laid-out for inspection (don't try to remove the copper tabs... they're "permanently" attached to the pins, unless one has broken loose... it can be resoldered), you're looking for things like contaminants, fractured quartz element etc.

I have been lucky enough, a couple of times, to just take a "dead" xtal apart and put it back together and, son-of-a-gun, it worked. Be VERY careful handling the quartz element... easy to destroy... and MUST be kept clean (this goes for ALL parts).

If you have the luxury, first take apart a xtal you don't care about as practice.

Good luck.

73,

Bill, N4QA

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Sep 2000 18:03:23 EDT

From: Macstein@aol.com

To: qrp-1@lehigh.edu

Subject: [78702] FOX - Two super ops today!
Message-ID: <3e.7cd5af.26e424ab@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

WOW, I had a very noisy band, with QSB until the last half hour. I think Marshall heard me more than I heard him!!! Paul was actually harder for me since he is only 40 miles away (some of us LIVE with NVIS low dipoles ALL the time!)

These guys are still going fast and furious into the last 10 minutes...
Marshall will probably equal his first outing. Way cool!

The Team thing has been a riot. Lots of fun. However, I still say the Dawgs smell like a Rat. I haven't heard Bob work Paul. Be interesting if we tie.
HAHAHAHA!

Thanks to the committee - especially Bruce. Looking forward to the Winter Season, with more teams in the fray!!

72 es "oo"

-MAC-

AF4PS

Odessa, FL "Home of the Infamous Attic Dipole" and K2 #643

QRP-L #704, FISTS #5096, CC #754, NorCal #1998, Zombie #510,
ARCI #9843, AR QRP #257, HI QRP #83, Whiners #5, SOC #28,
West FL QRP, TARC, ARS #751, Flying Pig QRP #-51
and various other annual \$15 commitments.

Date: Sun, 03 Sep 2000 18:17:39 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [78703] Fox: and Thanks
Message-ID: <3.0.32.20000903181735.00b48704@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dear Gangue,
Thanks to all involved in this great fun. I especially admire
the courtesy by all the Ops...a great group of gentle people!!!
73 Pete NV4V
One of the hated Ratz :-)

Date: Sun, 3 Sep 2000 16:58:37 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [78704] Another 50-50 Foxhunt...
Message-ID: <200009032158.AA00432@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Well, the last hunt of the year boded well in that I could hear both Marshall and Paul. "Cool", methinks, "I'll bag Marshall before the band takes a shift on me, and should be able to come back around for Paul"...

43 minutes into the hunt, I finally coaxed the mighty milliwatts into Marshall's RX. Spent the next 77 minutes trying to dodge the QRM that seemed to close in like waves over Paul, plus the QSB. He was at times better than 20 over S9, but calling proved futile, though I did get a 0? now and again (of course, other enterprising 0 hounds took advantage as well). First hunt that I've had clean shots and the bullet didn't find the mark.

As a final tally for the season, out of the 16 hunts I participated in, I managed to bag a total of 9 pelts, all while running 250mW to an end-fed sloping wire at 10' max height. Only one skunking where I could hear the fox but not work him. I'm really beginning to like this milliwatt stuff! :-)

At any rate, thanks again to all the foxes and the people responsible for putting this summer season on! It was a real blast!!!

72/73,

Todd, AG0T
QRP-L #2211

Date: Sun, 03 Sep 2000 18:16:49 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78705] FOX: Quick report from the swamp
Message-ID: <39B2CDD1.90DDEB1B@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WOW...60 of you guys made the log. It will be out later tonight. Just wanted to say thanks to everyone that called in. We had a line of thunderstorms move in about 1/2 way through...and the static was at

least 20db over 9. For most of the 2nd hour I had to transmit on the beam, then switch to the 40m dipole to hear ANYTHING. I know there were lots of others calling...but only at the very end could I hear on the beam again.

Worked 2 Dawgs in the last 5 minutes...bet you guys were sweatin' it huh?

Thanks to the fellow Swamp Rats for their outstanding effort and again big thanks to the summer hunt committee for putting it all together.

Looking forward to the winter season. I have a line on a 40m beam...so you Dawgs better get with the antenna work!

73
Paul AJ4Y/fox

Date: Sun, 3 Sep 2000 18:12:26 -0700
From: John Payne <paynej1@strato.net>
To: qrp-l@lehigh.edu
Subject: [78706] RE:Dead FT-243 Crystal Question
Message-ID: <SAK.2000.09.03.edoigham@john-payne>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8Bit

Gary-

Like some of the others on the list, it has been many a year since I was a "rock-bound" Novice(WN4FLJ), but I recall taking '243 crystals apart several times with good success. I used to QSY up by grinding them on plate-glass with Comet cleanser or similar, and they could sometimes be moved down a few hundred Hz(cycles) by lightly rubbing them with a #2 pencil. If one is very careful about cleanliness and proper reassembly, there should be no problem at all. Just make sure that there are no cracks, pits or chips on the crystal itself, and clean it carefully with alcohol, and you should be good to go.

Good luck and 73

John N4FLJ

Date: Sun, 3 Sep 2000 17:21:43 -0500
From: "Jay Henson" <jbhenson@zebra.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [78707] FOXII
Message-ID: <000601c015f5\$57d324c0\$a14d55d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings to the group,

First - Happy Labor Day to all. May all your labors be labors of love.

I was very concerned about catching Paul (AJ4Y) since he is so close to me. I was not too terribly worried about Marshall. What a mistake. It was 100% the other way. Paul had a pretty good signal into AL this afternoon. I caught him about 10 minutes into the hunt. Thanks for the fox tail Paul.

Marshall was barely heard the whole time. At 90 minutes into the hunt, I heard an ID station 599 and then a CA station at 599. I figured the ether gods were changing the band conditions for the better. Wrong! I still could barely hear Marshall. Before it was over, I think we did connect but were not able to complete the exchange so it was a miss. ET did not phone AL this afternoon. Thanks for the effort Marshall.

To the group that pushed, organized, and handled the summer fox hunts, my sincerest appreciation. It has been challenging, to say the least, and a whole lot of fun. I hope it can be done again next simmer. Thanks....

Now, to get set up for the fal and winter hunts.

See you on the radio.

Jay

AJ4AY Mobile, AL

QRP-L #1372 ARCI #8131 SOC#220 FP#115

Date: Sun, 3 Sep 2000 15:25:48 -0700
From: "Glenn Maclean" <glennmaclean@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [78708] The Summer Fox Hunt
Message-ID: <005001c015f5\$e97f9fc0\$2088fea9@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to personally thank NITP Tom, K0EVZ Doc, K1MG Mike, and N1FN Marshall for putting on the summer fox hunt. I was a first time hound participating in this event. I had an absolute blast and did much better than I ever dreamed I would. I also want to thank all of the foxes for all of there hard work and efforts. I learned a lot over the past months about doing weak signal work and my abilities.

Perhaps we can talk these guys into putting on the 40 meter winter hunt since they did such a great job with the summer hunt. What do you say guys?

Thanks again,
Glenn Maclean WA7SPY
Sacramento, CA

Date: Sun, 3 Sep 2000 15:34:28 -0700
From: schoon@amgt.com
To: <qrp-1@Lehigh.EDU>
Subject: [78709] OT: Looking for 73 Mag Article Between 1991 & 1994
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BD-000903223428Z-3036@mail.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks for reading!!

I used to have the above mentioned years in my collection, but after several moves and a garage that was broken into, they are gone. I am looking for an antenna article. From what I remember, it's a dipole that is all band 80-10m, WARC included, made entirely out of wire without traps. It was kinda like a folded dipole, as it had tuning stubs soldered at the ends of the legs that were brought back towards the center. These stubs were of various lengths to cover all the bands. Hopefully this rings a bell or two with someone. I am going to try calling Wayne Green's company and see about reprints, but I'm not holding my breath. They didn't have any info on ordering reprints of

articles, just of his editorials from his website. If anyone has this article, would you be willing to photocopy?? I'll pick up all nomical costs, postage, etc.

Thanks again!

72

.mark

```
=====
Mark Schoonover KA6WKE          IS Manager
Trail Runner,HAM                schoon@amgt.com
                                ka6wke@wb6dgr.#sca.ca.usa.noam
http://www.qsl.net/ka6wke        ka6wke-1 145.05
                                Mobile: 146.52 & 28.470
                                Lat: 32.85380 Long: -117.00980 Grid: DM12lu
=====
```

IS Manager

"Remember, amateurs built the ark, Professionals built the Titanic!"

Date: Sun, 3 Sep 2000 17:48:51 -0500
From: "Jay Henson" <jbhenson@zebra.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [78710] Station Grounding
Message-ID: <000801c015f9\$21dac7c0\$a14d55d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello to the group,

I have followed the short thread on station grounding very closely. In fact, I changed my grounding configuration to that of a star, as recommended by several on the list. My rig, tuner, PC, and power supply meet at a point and that point feeds to the station ground. In my case, that is the utility ground rod.

Question: Comments have been made that the station ground should NOT be the utility ground rod. I read the comments several times and I still am not

sure of the reason. Is this a SAFETY issue? A local code issue?

I took the time to read the chapter in the 1999 handbook on safety (station grounding) and it says a lot but does not address this. In fact, the handbook says that all grounds (DC, RF and lightning) need to be connected. In my case, the utility ground rod is located just outside the shack window (approx 10 or so feet from the rig). Should I drive another ground rod as the station ground (DC), connect counterpoises (RF ground) and connect it to the utility ground (DC ground)? My station protection for lightning is to not be connected to the antenna at all. This ignores the possibility that lightning could come into my home via power lines/cable TV/telephone.

In other words, am I as safe as I think I am? The last thing that I want to do is to let the smoke out of my K2. I need all of the mojo I can keep.

Thanks for any help. Have a VERY SAFE holiday.

See you on the radio.

Jay

AJ4AY Mobile, AL

QRP-L #1372 ARCI #8131 SOC#220 FP#115

End of QRP-L Digest 1933
